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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,797	06/06/2001	Bedabrata Pain	06618/644001/CIT 3224	2980
20985	7590 12/22/2004		EXAM	INER
FISH & RICHARDSON, PC 12390 EL CAMINO REAL			LEE, PATRICK J	
	CA 92130-2081		ART UNIT	PAPER NUMBER
ŕ			2878	

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application No.	Applicant(s)			
Office Action Summary		09/681,797	PAIN, BEDABRATA			
		Examiner	Art Unit			
		Patrick J. Lee	2878			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply o period for reply is specified above, the maximum statutory period wire to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) ill apply and will expire SIX (6) MONTHS frouse the application to become ABANDO	timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).			
Status			·			
1)[🗆	Responsive to communication(s) filed on 18 Oc	ctober 2004.				
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)□	<del>'-</del>					
Disposit	ion of Claims					
<ul> <li>4)  Claim(s) 1-42 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) 1-42 are subject to restriction and/or election requirement.</li> </ul>						
Applicat	ion Papers					
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examine The specification is objected to be specification in the specification is objected to be specification.	epted or b) objected to by the drawing(s) be held in abeyance. Son is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Information	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	ary (PTO-413) Date al Patent Application (PTO-152)			

Application/Control Number: 09/681,797

Art Unit: 2878

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-15, drawn to a photosensor element, classified in class 250, subclass 214.1.
  - Claims 16-30, drawn to an imaging device, classified in class 359, subclass 28.
  - III. Claims 31-37, drawn to semiconductor device, classified in class 257, subclass 233.
  - IV. Claims 38-42, drawn to a method of making a semiconductor device, classified in class 438, subclass 48.
- 2. The inventions are distinct, each from the other because of the following reasons:

  Inventions III and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2)

inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case a guard ring can be used to prevent photo carriers instead of biasing the storage node. Inventions II and III are related as subcombinations disclosed as usable together in a single combination. Inventions I and III are two separate inventions as based on claims 1 and 16 for invention I refers to a ratio of capacitances per unit area to be at least of two orders of magnitude difference, while invention II refers to a ratio of  $C_P/C_D$  to be greater than 0.7.

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The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as the photosensor element does not require switches in imaging devices. See MPEP § 806.05(d).

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Lee whose telephone number is (571) 272-2440. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick J. Lee Examiner Art Unit 2878

PJL

December 17<sup>th</sup>, 2004

Stephone B. Allen Primary Examiner